

Product Evaluation

MC20 | 0319

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: MC-20

Effective Date: March 1, 2019

Re-evaluation Date: March 2023

Product Name: Fiberon Horizon Decking Boards: Horizon, Symmetry, Sanctuary, ArmourGuard, Protect, Protect Advantage, Good Life, and Veranda Composite Decking.

Manufacturer: Fiberon Composites, LLC
181 Random Drive
New London, NC 28127
(800) 573-8841

420 W. Franklin Rd.
Meridian, ID 83642-2823

General Description:

Horizon, Symmetry, Sanctuary, Armorguard, Protect, Protect Advantage, Good Life, and Veranda Composite Decking (VCD) deck boards are co-extruded composite material composed of a high-density polyethylene (HDPE) and low-density polyethylene (LDPE) wood fiber composite core and an HDPE cap stock on the walking surface and sides. The mixture used in the processing of the products was extruded through a continuous feed. The products are 15/16" thick and 5-3/8" wide with radiused corners and are intended for use as exterior deck boards.

Limitations:

- Framing for the deck boards must be minimum 2" x 8" MCA preservative-treated Southern Yellow Pine lumber.

- The maximum live load capacity of the board fastening system is 100 psf. The maximum allowable joist spacing needed to achieve the 100 psf uplift capacity is 16" on center.
- The maximum wind uplift rating is 200 psf for each fastener determined through testing. The maximum allowable joist spacing needed to achieve the 200 psf is 16" on center. The uplift rating is based on the uplift rating of Veranda ArmourGuard/Protect deck boards, which represent a worst case of the tested products.
- The deck boards are used for exterior decks and balconies, guard rails, stair treads, and non-structural trim components for exterior balconies, porches, decks, and other exterior surfaces. If the deck boards are to be used as flooring, the deck boards are to be fastened directly to the floor joist. The maximum span, live loads (using L/180), and the design of the floor joist to sustain the applicable gravity loads and resist the appropriate wind uplift pressure must be designed by the engineer of record.

Design Load: Maximum wind uplift rating is 200 psf

Live Load Rating:

Joist spacing must be based on the applied live loads as determined from the following table:

Board Size (Nominal)	Live Loads using L/180
	100 psf
5/4 x 6	16"

Installation:

- Deck boards are installed according to manufacturer's installation instructions.
- The stair step span depends on which board is being used. The maximum board span allowed is 9". Manufacturer installation instructions will specify spans based on board used.
- Framing Lumber: 2" x 8" MCA Southern Yellow Pine lumber spaced 16" on center. The deck boards are available in lengths of 12 ft, 16 ft, and 20 ft with 3/16" spacing between the boards.
- Fasteners: Minimum No. 8 x 2-1/2" composite deck screw.
- The deck boards are gapped to permit adequate drainage in accordance with the manufacturer's instructions.
- The deck boards must not be attached to any solid surface or watertight system, such as sheathing, waterproof membranes, concrete, roof decks, or patios.

Note: The deck boards must be installed in accordance with the manufacturer's installation instructions and this product evaluation report. The manufacturer's installation instructions must be on the job site during the installation. All fasteners must be corrosion resistant as specified in the IRC, the IBC, and Texas Revisions.